Applicant: Todd M. VanDenAvond, John D. Sneden, and Chris Reed
Title: [redacted]KAGE LABELING
Attorney/Agent: Kent J. Sieffert
Reg. No. 41,312
Telephone: 651.735.1100

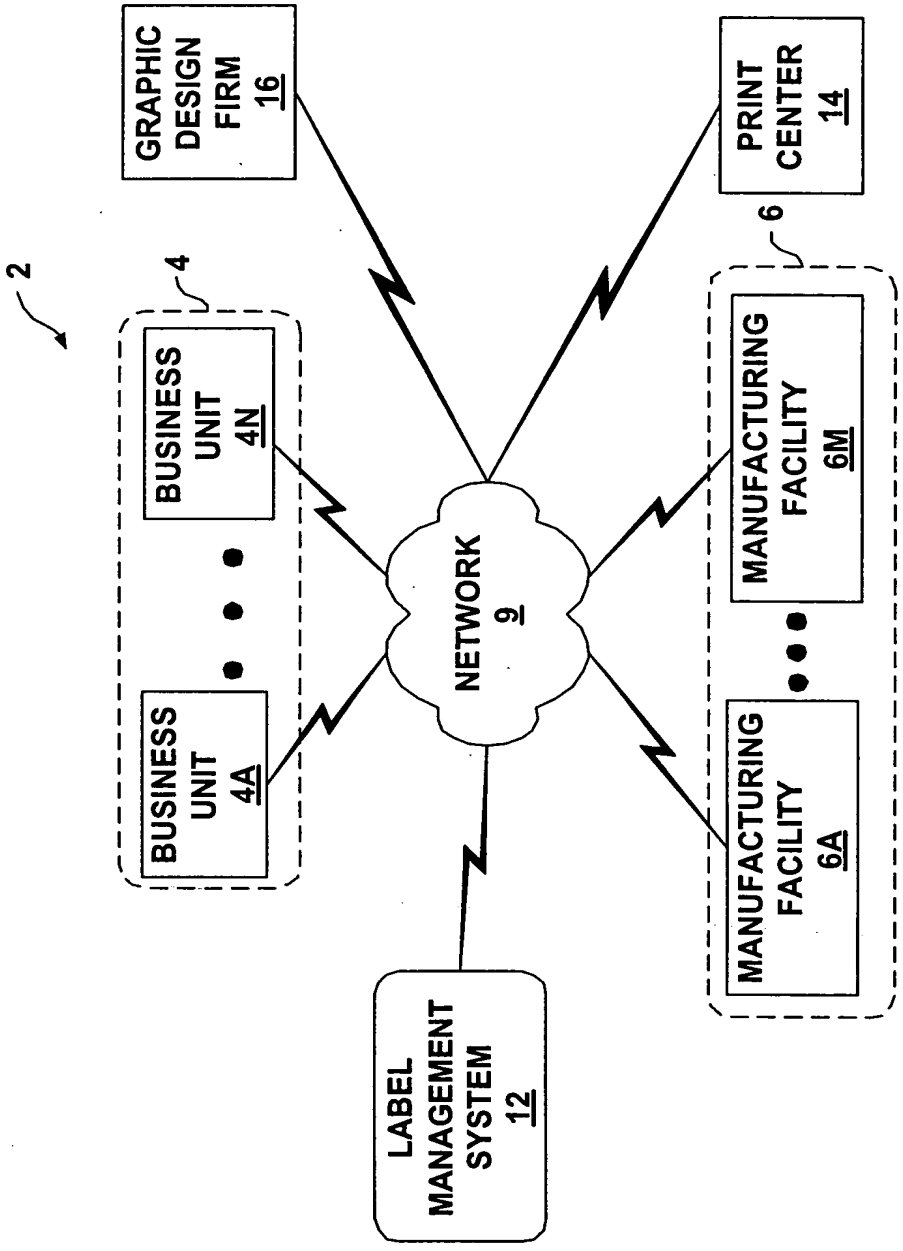


FIG. 1

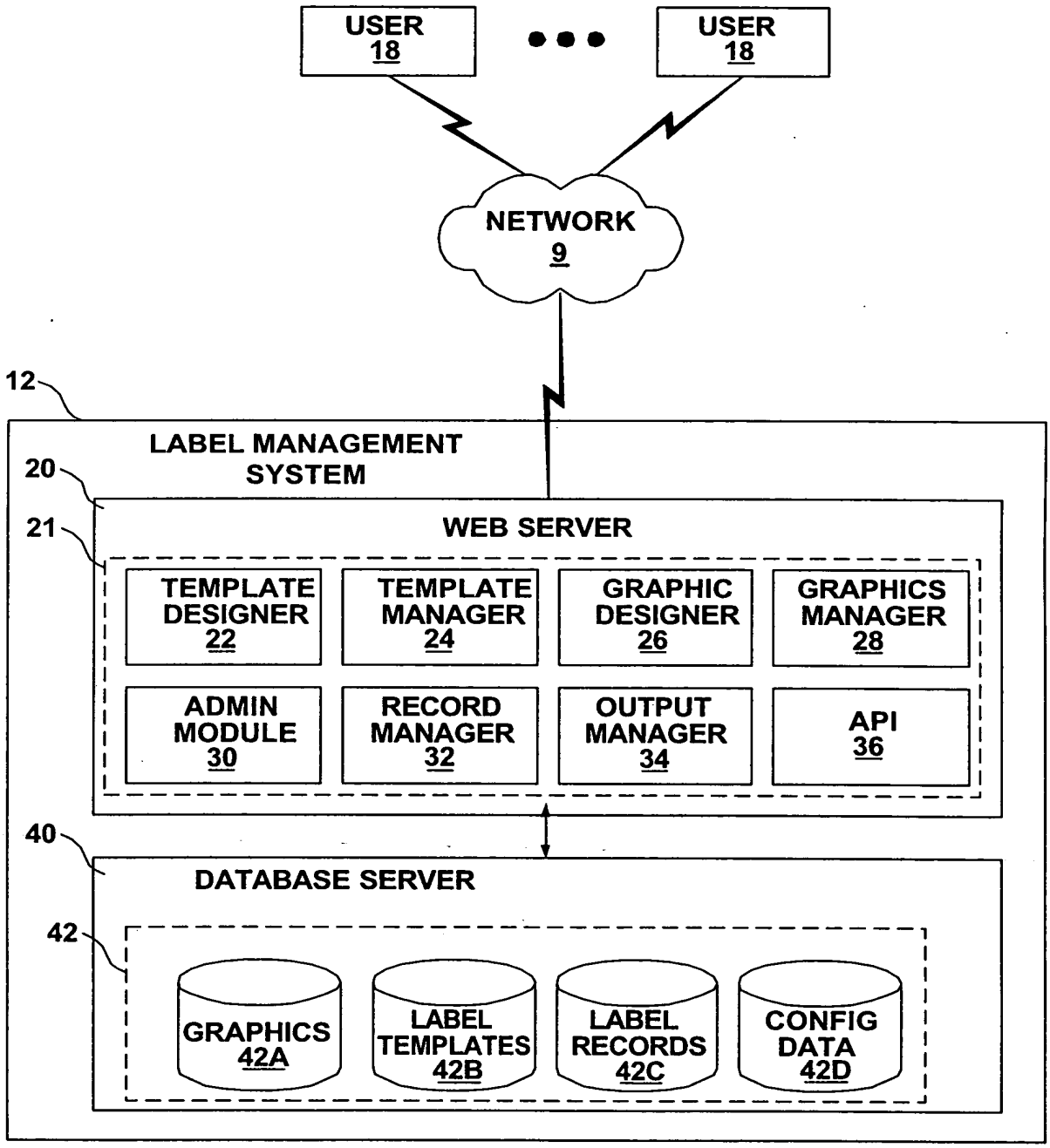

USER 18
USER 18
NETWORK 9
12
LABEL MANAGEMENT SYSTEM
20
21
WEB SERVER
TEMPLATE DESIGNER 22
TEMPLATE MANAGER 24
GRAPHIC DESIGNER 26
GRAPHICS MANAGER 28
ADMIN MODULE 30
RECORD MANAGER 32
OUTPUT MANAGER 34
API 36
40
DATABASE SERVER
42
GRAPHICS 42A
LABEL TEMPLATES 42B
LABEL RECORDS 42C
CONFIG DATA 42D

FIG. 2

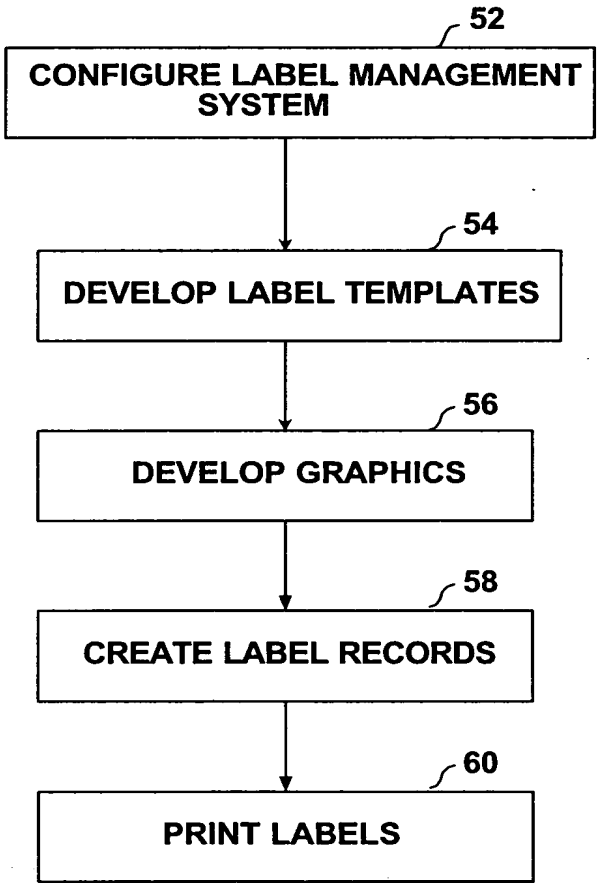
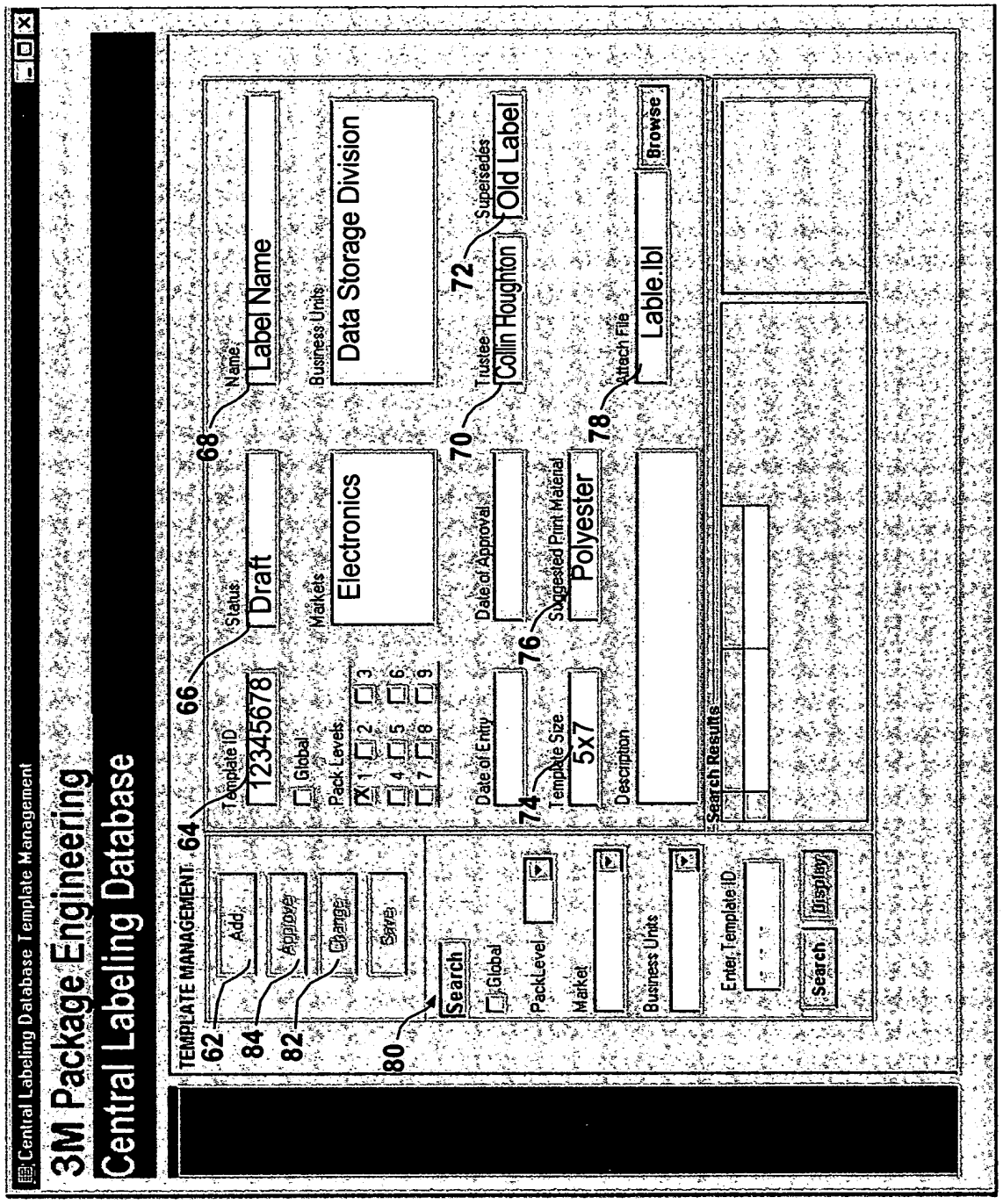

52
CONFIGURE LABEL MANAGEMENT SYSTEM
54
DEVELOP LABEL TEMPLATES
56
DEVELOP GRAPHICS
58
CREATE LABEL RECORDS
60
PRINT LABELS

FIG. 3



TEMPLATE MANAGER

FIG. 4

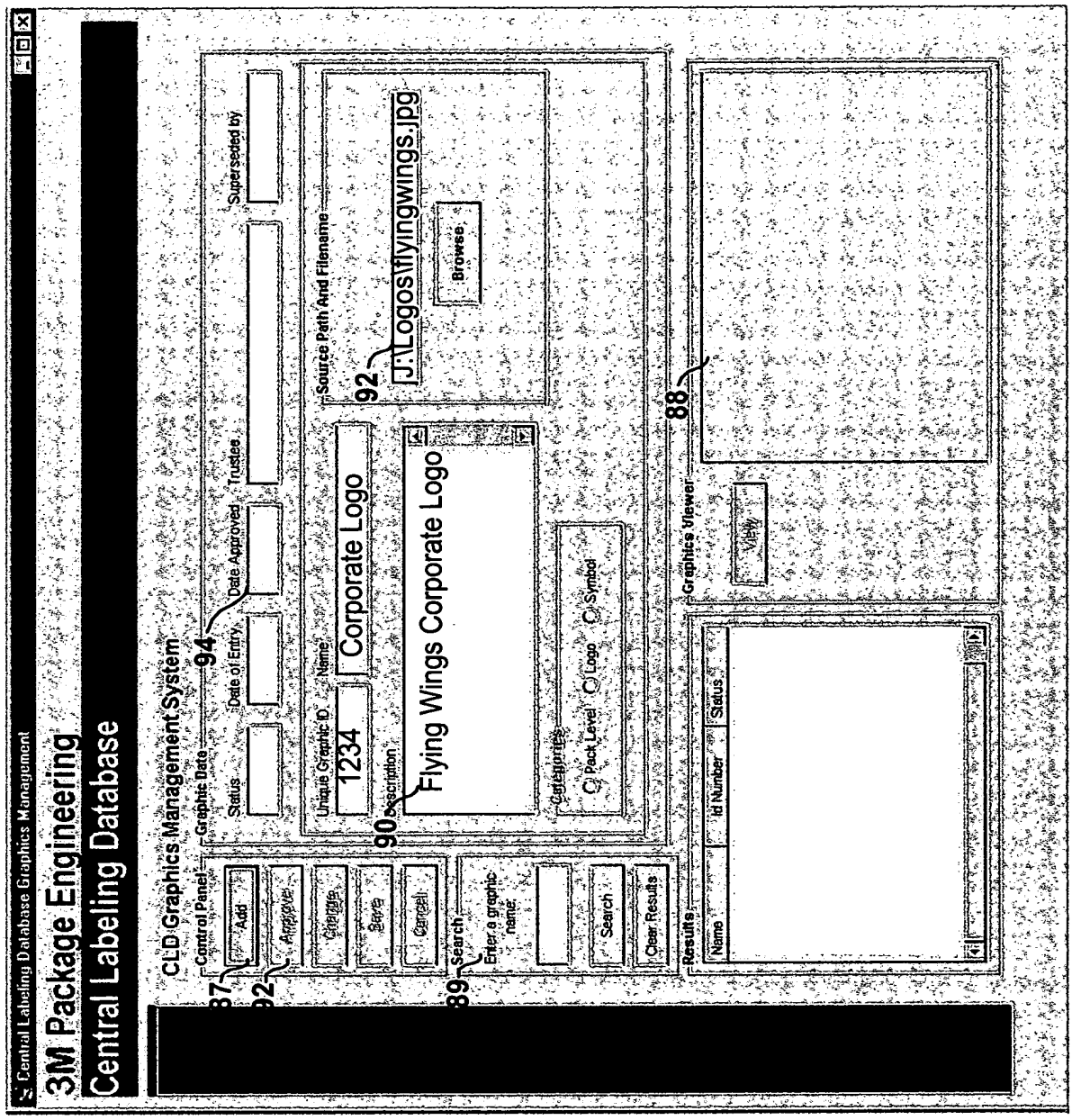

Central Labeling Database Graphics Management
3M Package Engineering
Central Labeling Database
CLD Graphics Management System
Control Panel
Add
Approve
Change Bars
Cancel
Search
Enter a graphic name
Search
Clear Results
Graphic Date
Status
Date of Entry
Date Approved
Trustee
Superseded by
Unique Graphic ID
1234
Name
Corporate Logo
Description
Flying Wings Corporate Logo
Categories
Pack Level
Logo
Symbol
Source Path And Filename
J:\Logos\flyingwings.jpg
Browse
Graphics Viewer
View
Results
Name
Id Number
Status
GRAPHICS MANAGER
86
87
92
89
94
90
92
88

FIG. 5

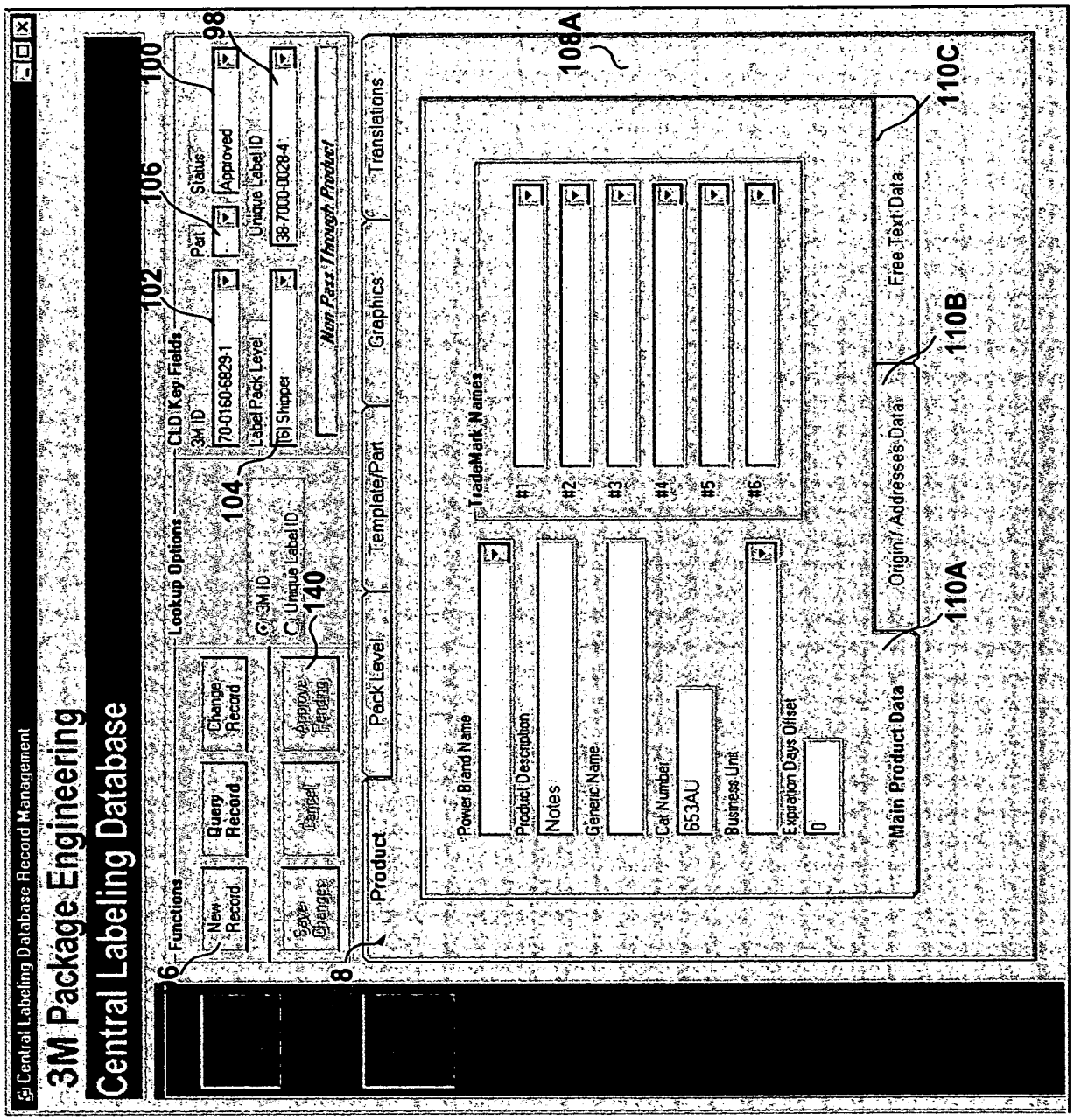

RECORD MANAGER
94
Central Labeling Database Record Management
3M Package Engineering
Central Labeling Database
Functions
New Record
Query Record
Change Record
Save Changes
Cancel
Approve Pending
Lookup Options
3M ID
Unique Label ID
CLD Key Fields
3M ID
70-01 60-6829-1
Label Pack Level
16 Shipper
Part
Status
Approved
Unique Label ID
98-7000-0028-4
Non Pass Through Product
Product
Pack Level
Template/Part
Graphics
Translations
TradeMark Names
#1
#2
#3
#4
#5
#6
Power Brand Name
Product Description
Notes
Generic Name
Cat Number
653AU
Business Unit
Expiration Days Offset
0
Main Product Data
Origin / Addresses Data
Free Text Data
6
8
100
102
104
106
108A
110A
110B
110C
140

FIG. 6

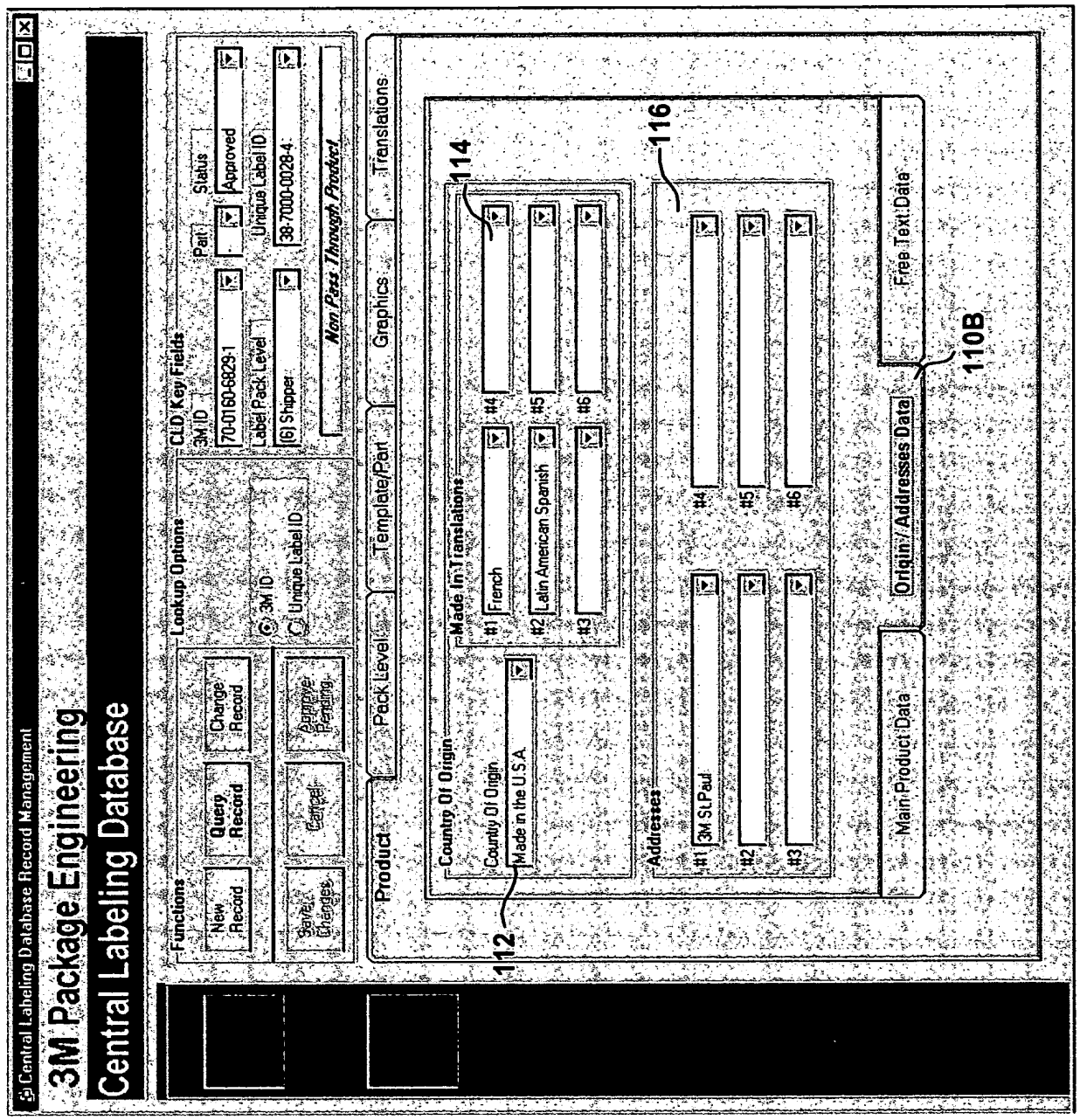

Central Labeling Database Record Management
3M Package Engineering
Central Labeling Database
Functions
New Record
Query Record
Change Record
Save Changes
Cancel
Remove Pending
Lookup Options
CID Key Fields
3M ID
70-0160-6829-1
Part
Status
Approved
Label Pack Level
Unique Label ID
38-7000-0028-4
[6] Shipper
3M ID
Unique Label ID
Non Pass Through Product
Product
Pack Level
Template/Part
Graphics
Translations
Country Of Origin
Made in the U.S.A.
Made In Translations
French
Latin American Spanish
#1
#2
#3
#4
#5
#6
Addresses
3M St.Paul
Main Product Data
Origin / Addresses Data
Free Text Data
112
114
116
110B
94
RECORD MANAGER

FIG. 7

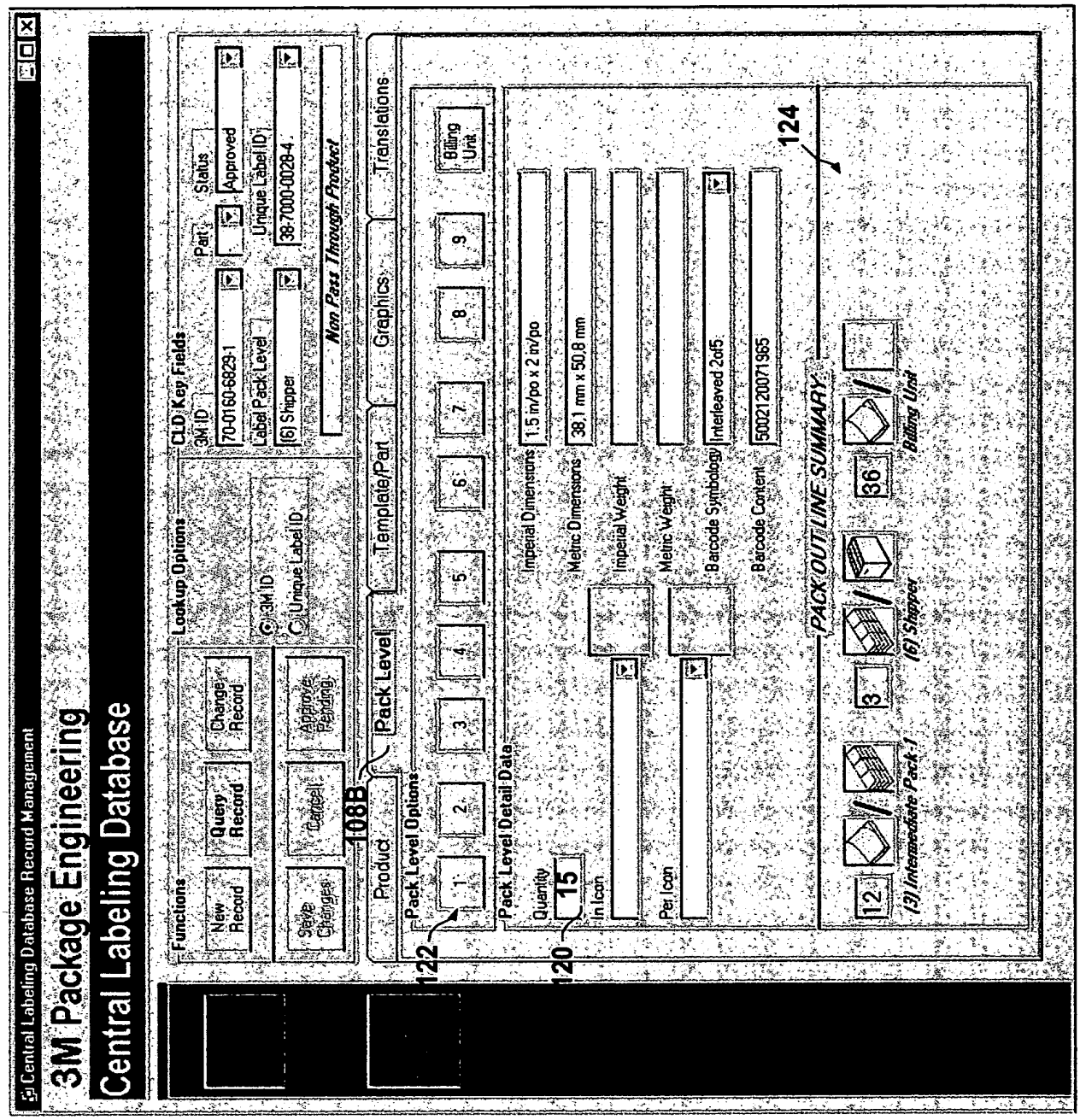

RECORD MANAGER
94
Central Labeling Database Record Management
3M Package Engineering
Central Labeling Database
Functions
New Record
Query Record
Change Record
Save Changes
Cancel
Approve Pending
Lookup Options
3M ID
Unique Label ID
CLD Key Fields
3M ID
70-0160-6829-1
Label Pack Level
(6) Shipper
Part
Status
Approved
Unique Label ID
38-7000-0028-4
Non Pass Through Product
Product
108B
Pack Level
Template/Part
Graphics
Translations
Pack Level Options
1
2
3
4
5
6
7
8
9
Pack Level Detail Data
Quantity
15
In Icon
Per Icon
Imperial Dimensions
1.5 in/po x 2 in/po
Metric Dimensions
38.1 mm x 50.8 mm
Imperial Weight
Metric Weight
Barcode Symbology
Interleaved 2of5
Barcode Content
50021200071965
Billing Unit
PACK OUT LINE SUMMARY:
12
(3) Intermediate Pack 1
3
(6) Shipper
36
Billing Unit
122
120
124

FIG. 8

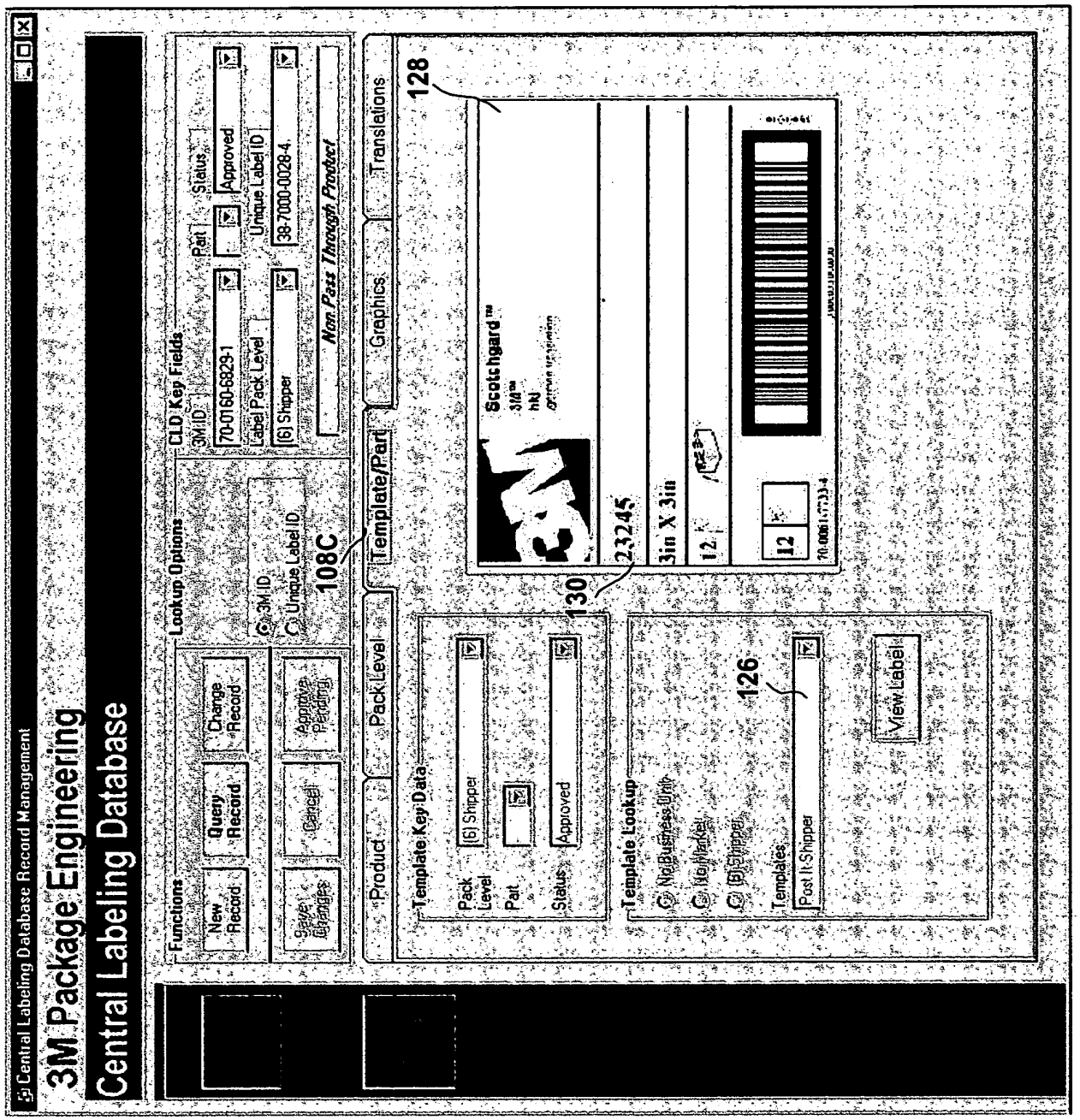

RECORD MANAGER
94
Central Labeling Database Record Management
3M Package Engineering
Central Labeling Database
Functions
New Record
Query Record
Change Record
Save Changes
Cancel
Approve Pending
Lookup Options
3M ID
Unique Label ID
108C
CLD Key Fields
3M ID
70-0160-6829-1
Part
Status
Approved
Label Pack Level
[6] Shipper
Unique Label ID
38-7000-0028-4
Non Pass Through Product
Product
Pack Level
Template/Part
Graphics
Translations
128
Template Key Data
Pack Level
[6] Shipper
Part
Status
Approved
130
23245
Template Lookup
No Business Rule
No Label
[6] Shipper
126
Templates
Post It Shipper
View Label
3in X 3in
12
12

FIG. 9

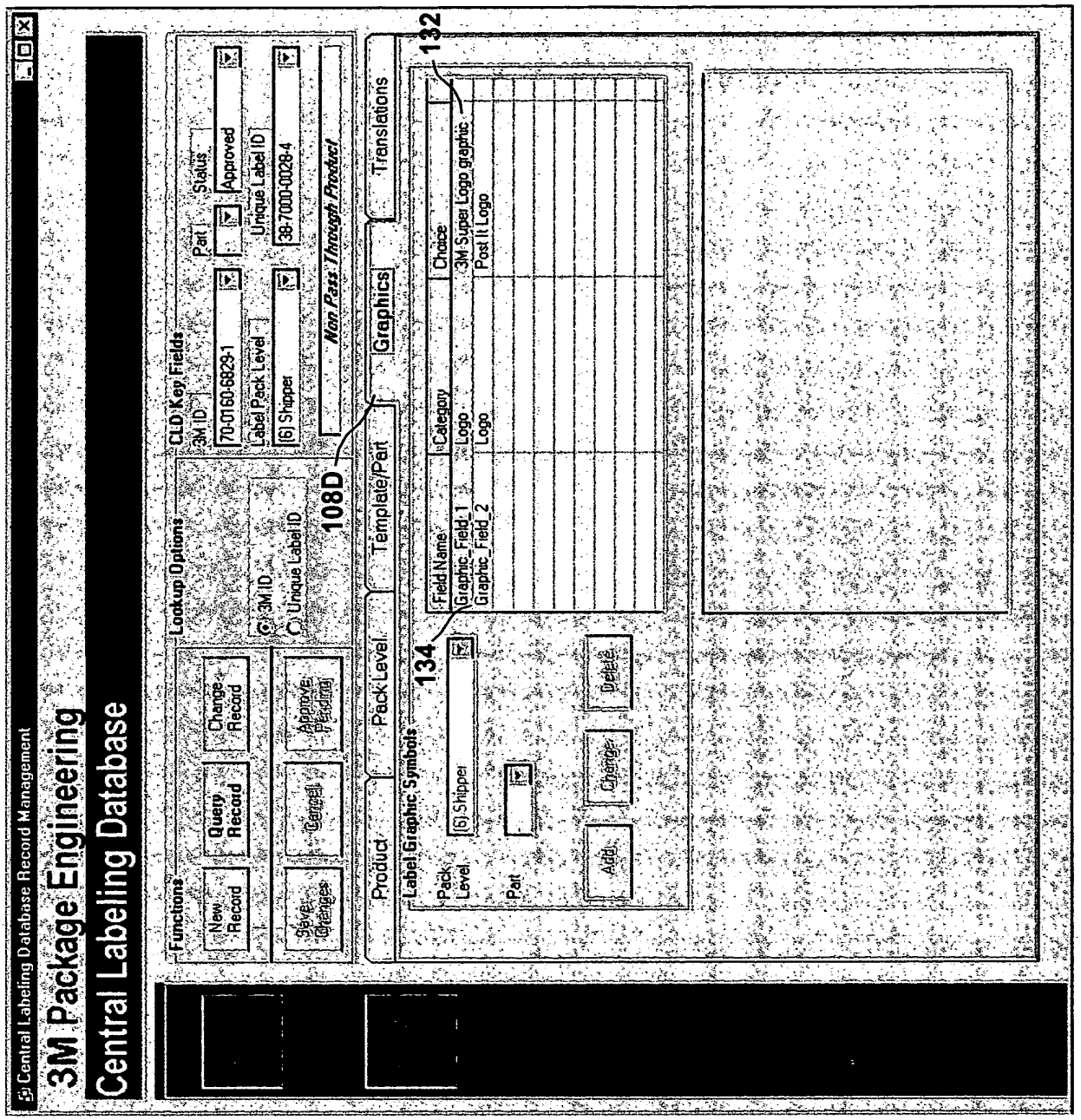

RECORD MANAGER
94
Central Labeling Database Record Management
3M Package Engineering
Central Labeling Database
Functions
New Record
Query Record
Change Record
Cancel
Approve Record
Lookup Options
3M ID
Unique Label ID
CLD Key Fields
3M ID
70-0160-6829-1
Label Pack Level
[6] Shipper
Part
Status
Approved
Unique Label ID
38-7000-0028-4
Non Pass Through Product
108D
Product
Pack Level
Template/Part
Graphics
Translations
132
Label Graphic Symbols
134
Pack Level
[6] Shipper
Part
Add
Change
Delete
Field Name
Graphic_Field_1
Graphic_Field_2
Category
Logo
Logo
Choice
3M Super Logo graphic
Post It Logo

FIG. 10

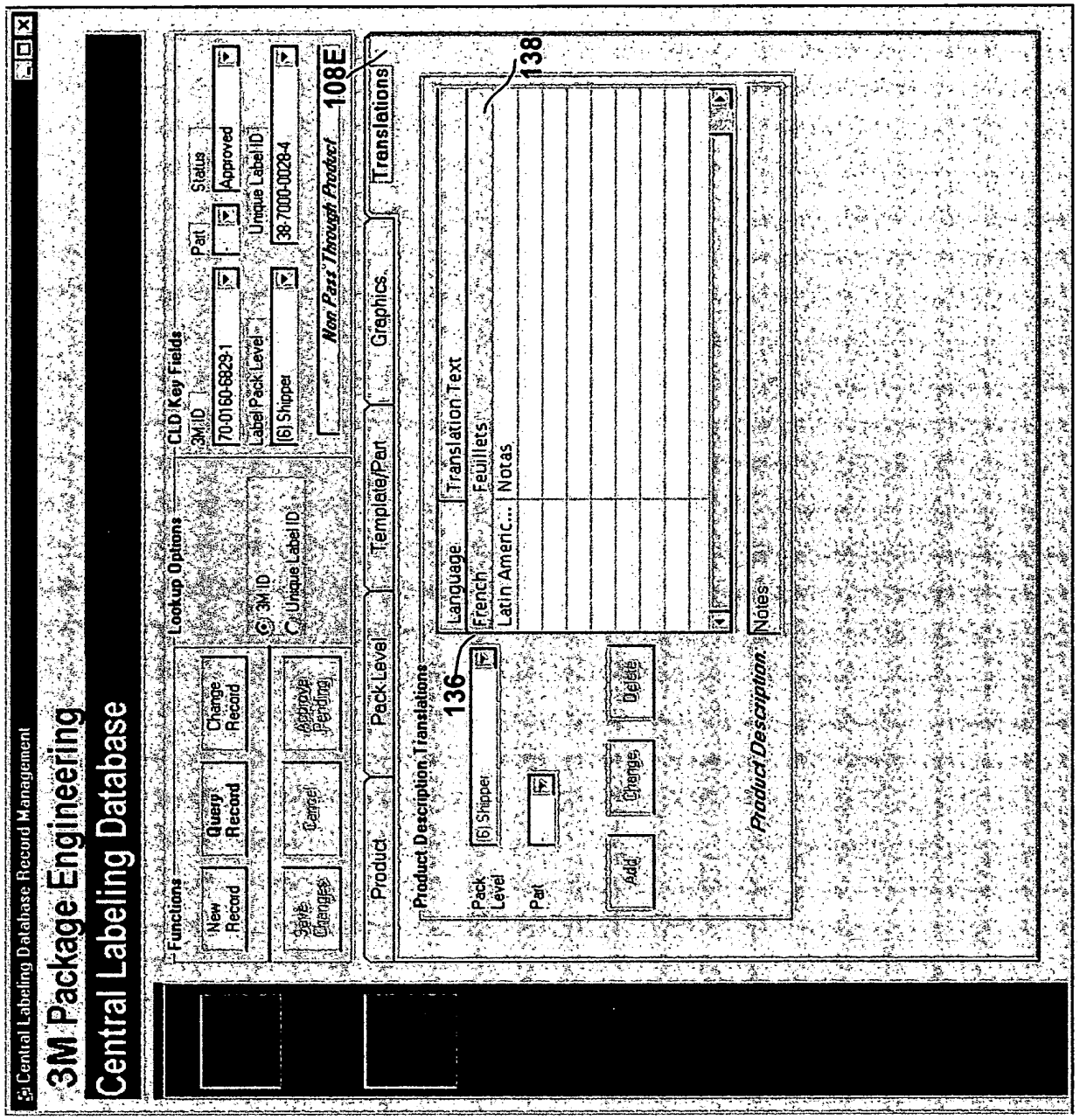

Central Labeling Database: Record Management
3M Package Engineering
Central Labeling Database
Functions
New Record
Query Record
Change Record
Save Changes
Cancel
Approve Pending
Lookup Options
3M ID
Unique Label ID
CLD Key Fields
3M ID
70-0160-6829-1
Label Pack Level
[6] Shipper
Unique Label ID
36-7000-0028-4
Part
Status
Approved
Non Pass Through Product
108E
Product
Pack Level
Template/Part
Graphics
Translations
Product Description Translations
Pack Level
[6] Shipper
Part
Add
Change
Delete
136
Language
Translation Text
French
Feuillets
Latin Americ...
Notas
138
Product Description:
Notes
94
RECORD MANAGER

FIG. 11

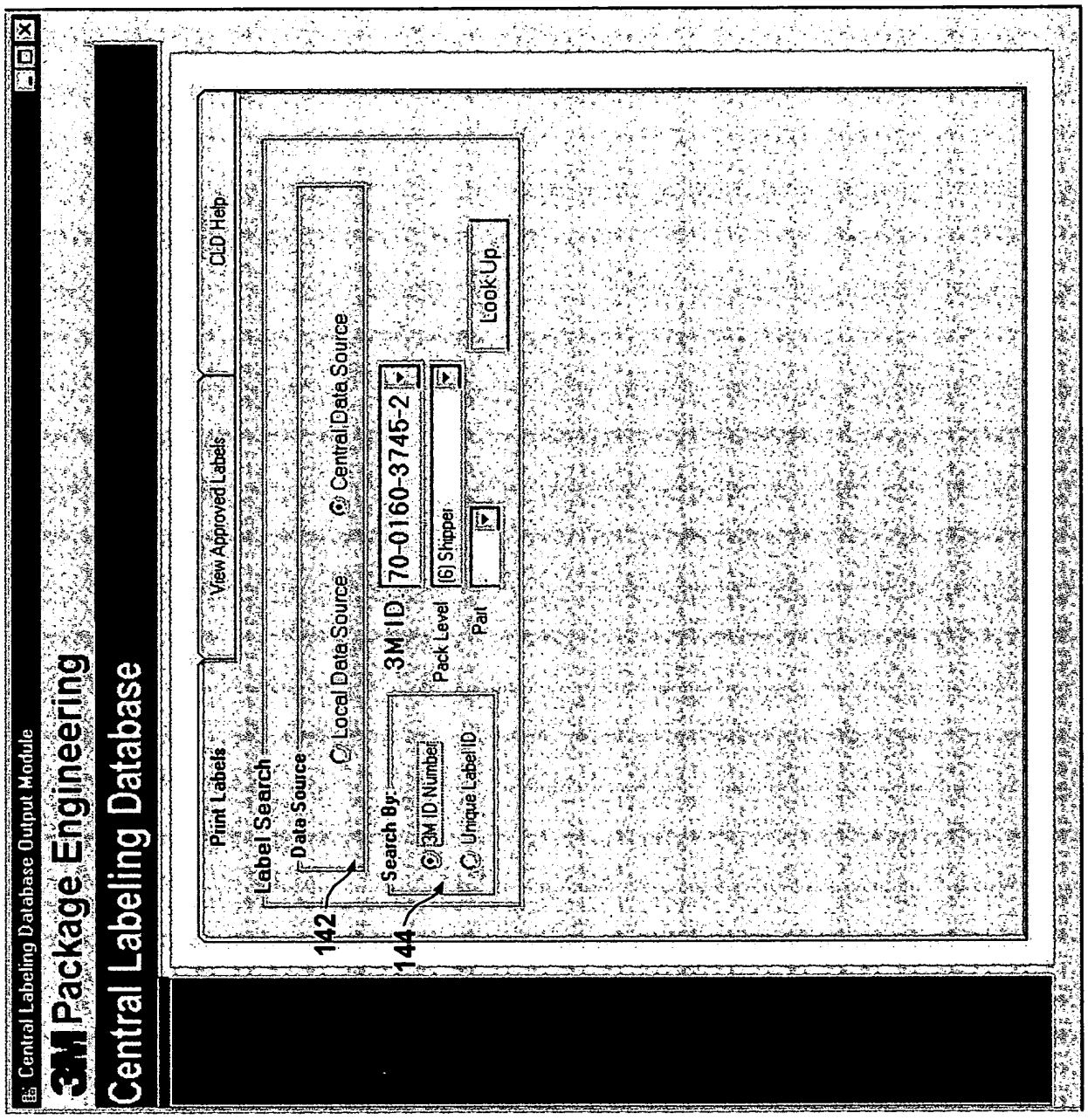

Central Labeling Database Output Module
3M Package Engineering
Central Labeling Database
Print Labels
View Approved Labels
CLD Help
Label Search
Data Source
Local Data Source
Central Data Source
Search By:
3M ID Number
Unique Label ID
3M ID:
70-0160-3745-2
Pack Level
[6] Shipper
Part
Look Up
142
144
140
OUTPUT MANAGER

FIG. 12

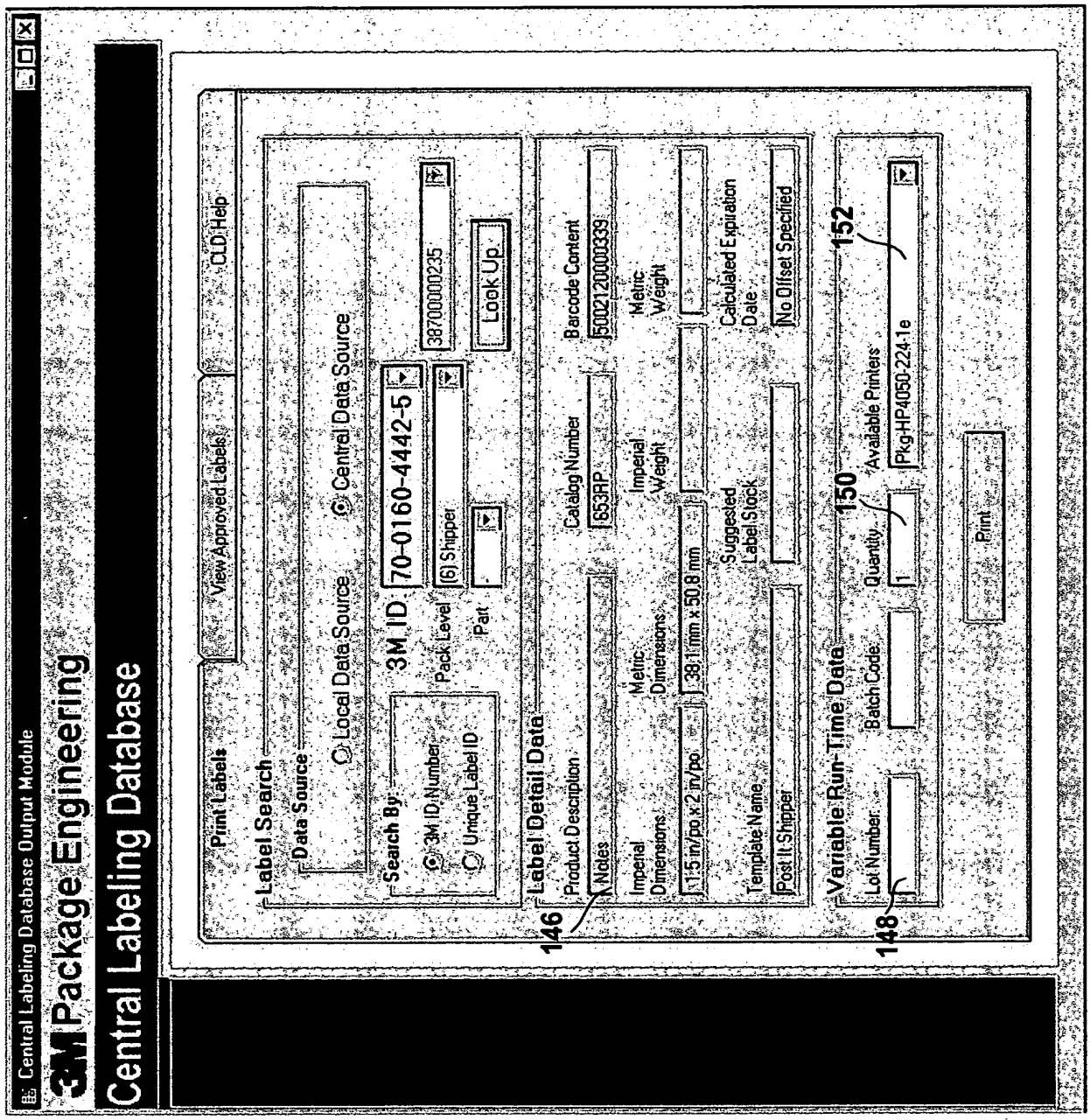

OUTPUT MANAGER
140
Central Labeling Database Output Module
3M Package Engineering
Central Labeling Database
Print Labels
View Approved Labels
CLD Help
Label Search
Data Source
Local Data Source
Central Data Source
Search By:
3M ID Number
Unique Label ID
3M ID:
70-0160-4442-5
Pack Level
(6) Shipper
Part
38700000235
Look Up
Label Detail Data
Product Description
Notes
Catalog Number
653RP
Barcode Content
5002120000339
Imperial Dimensions
1.5 in / po. x 2 in / po.
Metric Dimensions
38.1 mm x 50.8 mm
Imperial Weight
Metric Weight
Suggested Label Stock
Calculated Expiration Date
Template Name
Post It Shipper
No Offset Specified
146
Variable Run-Time Data
150
152
Lot Number
Batch Code
Quantity
1
Available Printers
Pkg-HP4050-224.1e
Print
148

FIG. 13

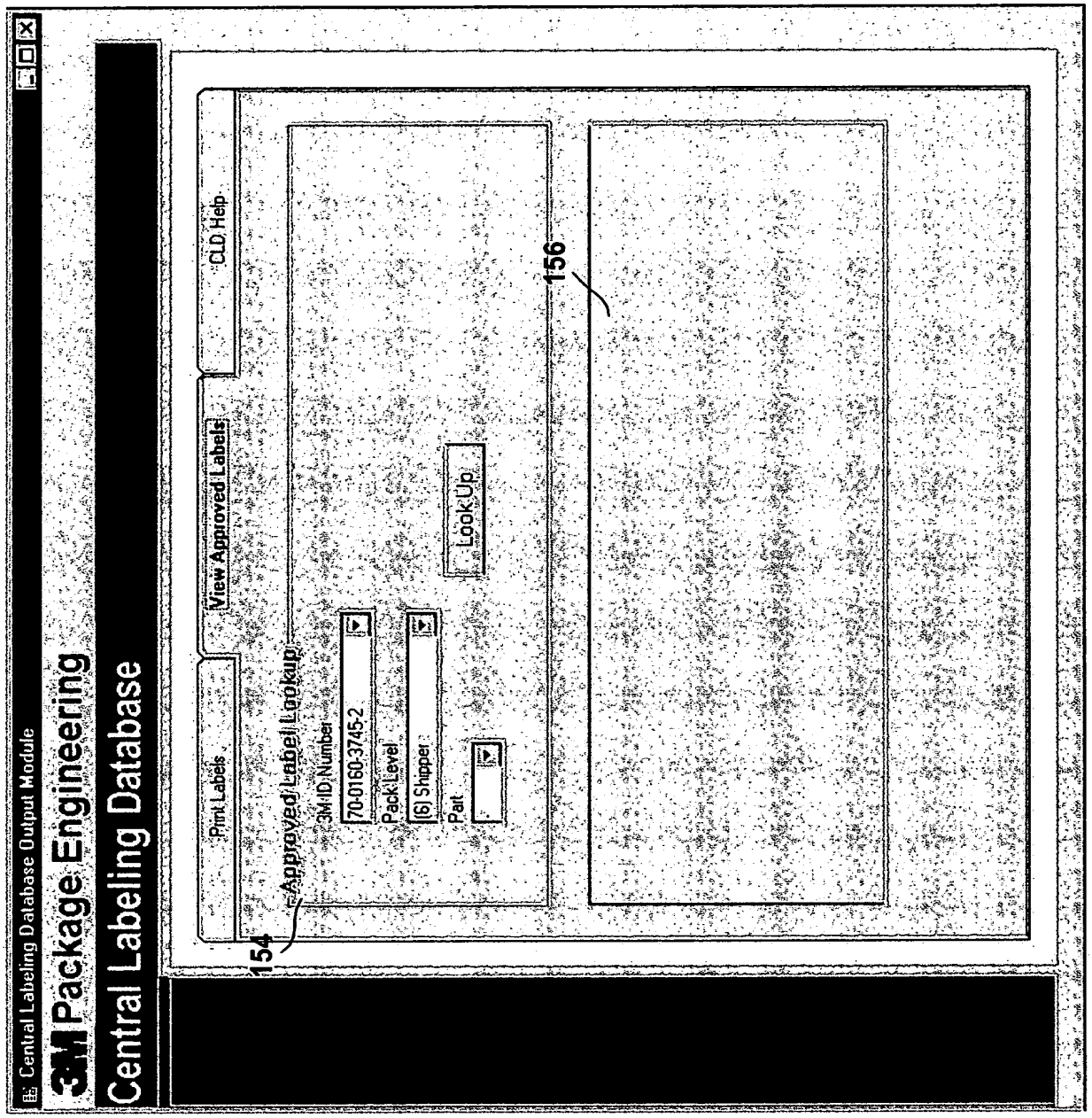

OUTPUT MANAGER
140
Central Labeling Database Output Module
3M Package Engineering
Central Labeling Database
Print Labels
View Approved Labels
CLD Help
Approved Label Lookup
154
3M ID Number
70-0160-3745-2
Pack Level
[6] Shipper
Part
Look Up
156

FIG. 14

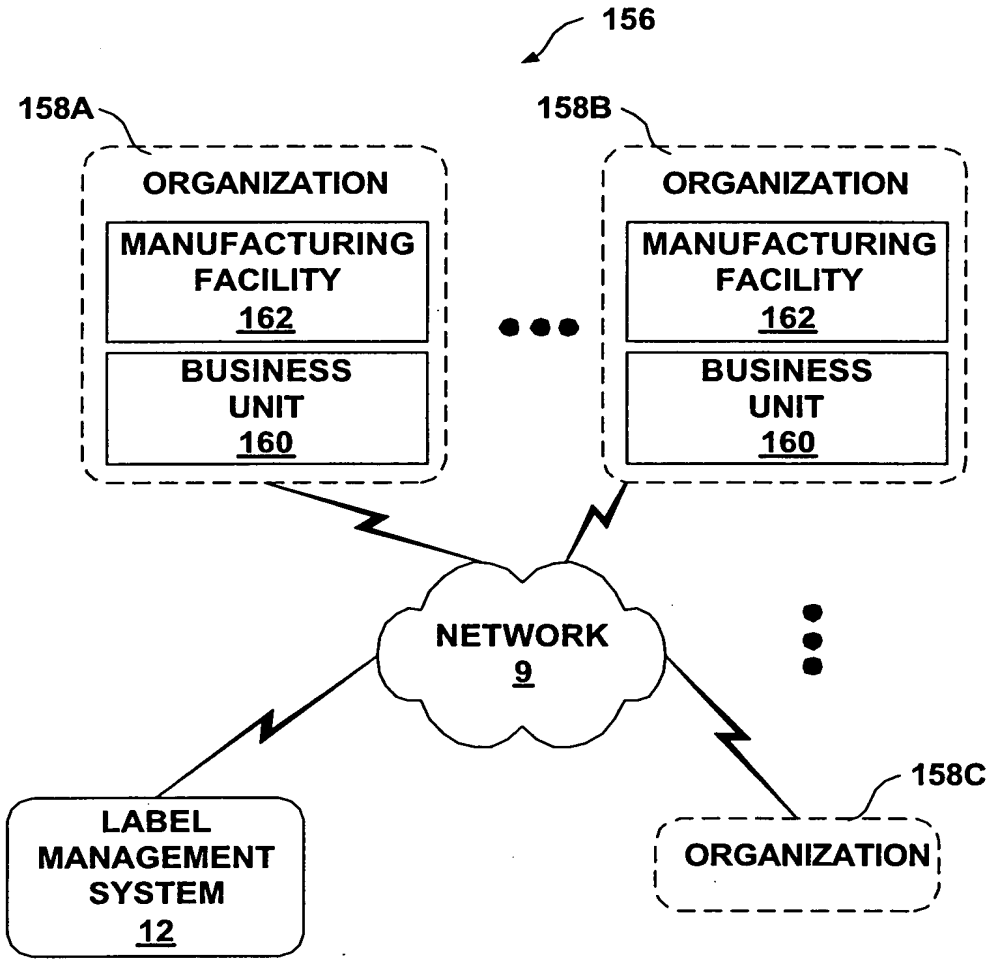

156
158A
158B
ORGANIZATION
MANUFACTURING FACILITY 162
BUSINESS UNIT 160
ORGANIZATION
MANUFACTURING FACILITY 162
BUSINESS UNIT 160
NETWORK 9
LABEL MANAGEMENT SYSTEM 12
158C
ORGANIZATION

FIG. 15

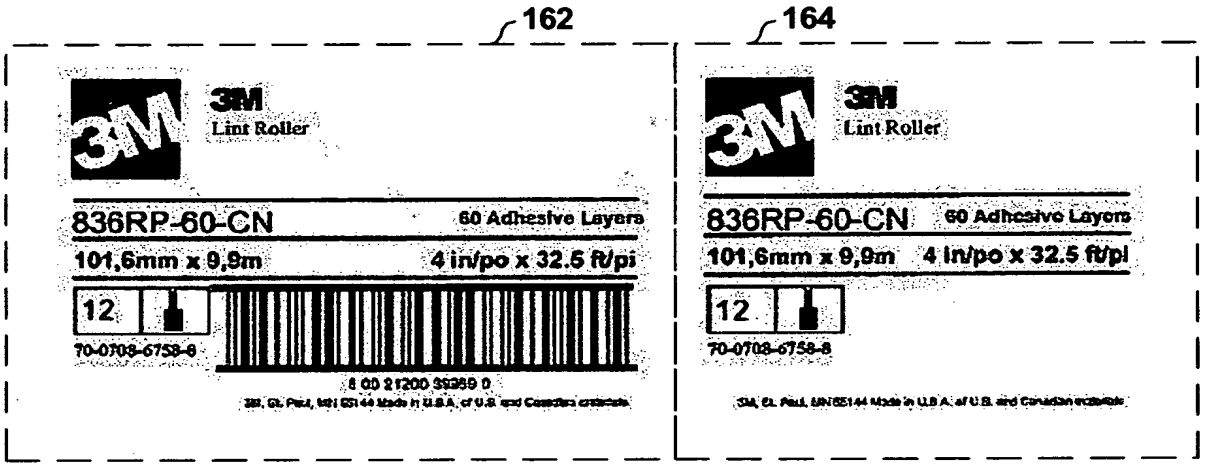

162
164
3M
Lint Roller
836RP-60-CN
60 Adhesive Layers
101,6mm x 9,9m
4 in/po x 32.5 ft/pi
12
70-0708-6758-8
3M
Lint Roller
836RP-60-CN
60 Adhesive Layers
101,6mm x 9,9m
4 in/po x 32.5 ft/pi
12
70-0708-6758-8

FIG. 16